Part #122627-001

OPERATION & SERVICE MANUAL:

FIBER OPTIC SPLICING TRAILER (FOST)

PELSUE®

ISO 9001 Certified

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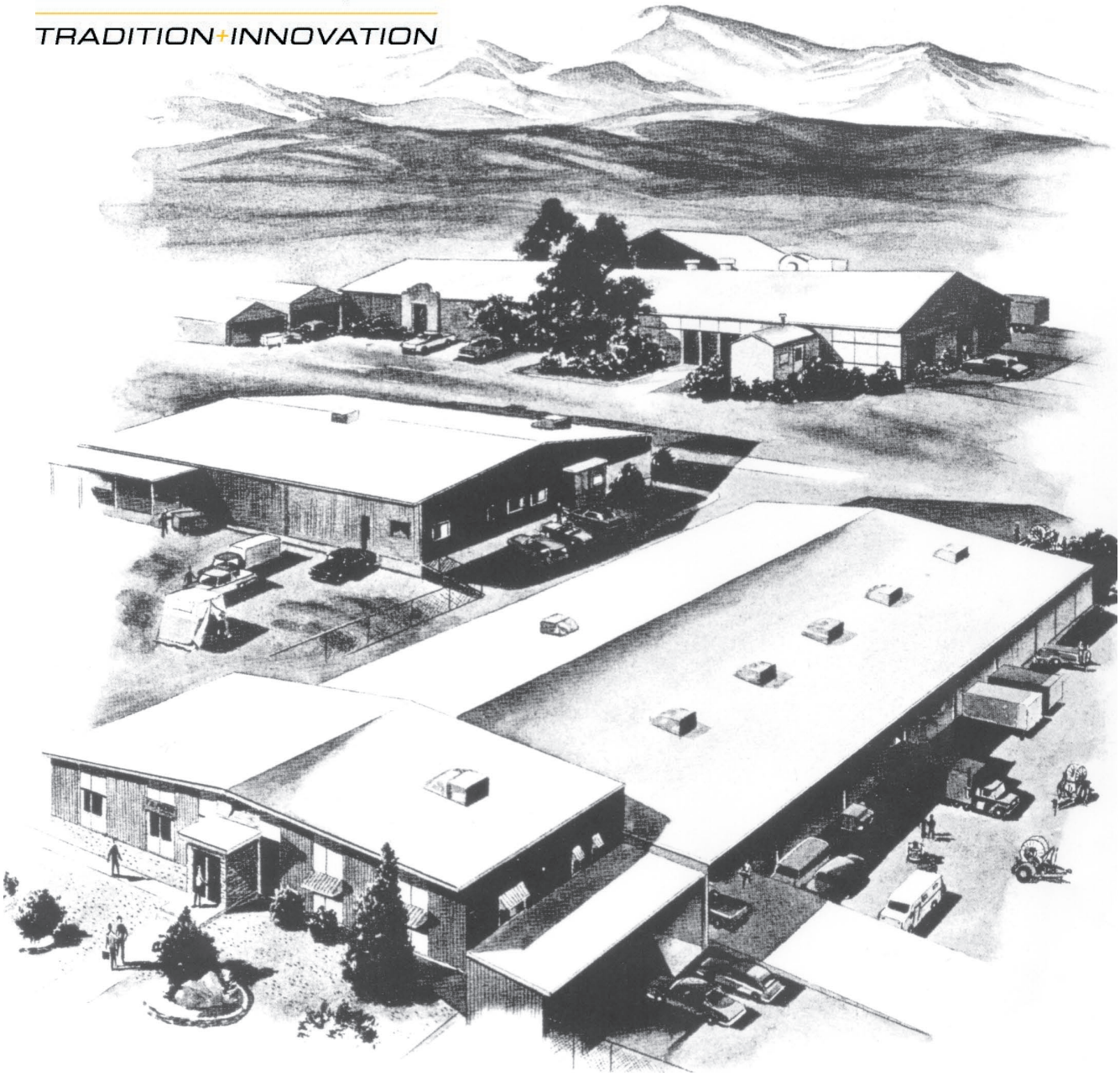
PELSUE®

TRADITION+INNOVATION

ISO 9001 Certified



Since our inception in 1963 – the T.A. Pelsue Company has designed and manufactured high quality equipment to improve the personnel efficiency and working conditions in various underground, confined, and outdoor areas.

Founded by T. Allen Pelsue, the company has established a continuing reputation for excellence in the production of fine products for a broad spectrum of industry throughout the world.

Now, in our second generation of family direction, continued commitment to innovation and quality makes Pelsue a leading source of equipment for many types of confined spaces. We specialize in safety, retrieval, fall arrest, ventilation, cable placing, splicing, and maintenance nationally and abroad. With more than 70,000 square feet of facilities available, Pelsue continues the dedication that has made us pre-eminent in this field.

Table of Contents

Section	Description	Page #
1.0	**General Information**	**5**
1.1	Introduction	
1.2	Quality Policy	
1.3	Warranty Statement	
2.0	**Trailer Information**	**8**
2.1	Trailer Data Plates	
2.2	Equipment Data	
3.0	**Trailer Operation & Usage**	**10**
3.1	Towing Instructions	
3.2	Operating Instructions	
3.2.1	Daily Equipment Check	
3.2.2	Starting	
3.2.3	General Operation	
3.2.4	Stopping	
4.0	**Trailer Wiring**	**19**
4.1	6 Pole Connector - Without Junction Box	
4.2	Light/Brake Wiring - With Junction Box	
4.3	6 Pole Connector - With Junction Box	
4.4	7 Pole Connector - Cole Hersee	
4.5	6 Pole Connector - Warner	
4.6	Trailer Wiring Diagram	
5.0	**Maintenance**	**26**
5.1	Trailer Chassis	
5.2	Genset & Genset Installation	
5.3	Maintenance Record	
6.0	**Safety**	**29**
6.1	General Safety	
6.2	Propane Safety	
7.0	**Troubleshooting**	**31**
7.1	Electric Brakes Troubleshooting	
7.2	Genset Troubleshooting	
8.0	**Optional Equipment**	**33**
8.1	Arrowboard (Option #9000)	
8.2	Shield and Guard Carrier (Option #9004)	
8.3	Wall Heater (Option #9040)	
8.4	Cable Clamp (Option #9027)	
8.5	Other Options	

1.0 - General Information

The following section contains general information that should be read immediately upon receipt of your Pelsue trailer.

1.1 - Introduction

PELSUE®

ISO 9001

T.A. Pelsue Company ♦ 2500 S Tejon, Englewood, Colorado, 80110, USA ♦ Telephone (303) 936-7432 ♦ Fax (303) 934-5581

Thank you and congratulations on purchasing what we feel is the world's finest Fiber Optic Splicing Trailer. Prior to unloading your trailer, please note the following:

Upon receipt of your new Pelsue Fiber Optic Splicing Trailer:

1. Install tongue jack, if not already installed, on the pivot mount provided at the A-frame of trailer prior to unloading from carrier. This jack is stored inside of the trailer in a cabinet module if not installed upon receipt. Wheel chocks, if chosen as an option, and corner leveling jacks may also be stored inside in a cabinet module.

2. Once trailer is safely on the ground with wheels chocked, inspect the exterior to verify damage has not occurred during transit. **NOTE ANY DAMAGE ON BILL OF LADING.**

3. Install rear corner leveling jacks if required and, if selected, the optional front leveling jacks.

4. Remove any additional protective padding that may have been installed around the roof top mounted air conditioner.

5. Open genset compartment and visually inspect genset. Check the oil level prior to starting it.

6. The air conditioner, generator and base trailer carry factory warranties by their respective manufacturers. We will gladly assist with and coordinate any warranty claims you may have with any component, whether Pelsue or another manufacturer.

7. An operation & service manual is located inside of the trailer in a wall-mounted holder. Also provided are manuals pertaining to other pieces of installed equipment. Please make a record of the trailer VIN number, generator serial number and air conditioner serial number, a place for recording these numbers is located in section 2.1 of this manual. These numbers will aid us in identifying your trailer if future warranty or service needs are required.

8. If you have any questions or require assistance with your trailer, now or in the future, please contact us at 1-800-525-8460.

9. Thank you for purchasing your Fiber Optic Splicing Trailer from the PELSUE COMPANY. We know it will give you many years of faithful service.

T.A. Pelsue Company

Quality Policy

OUR GOAL IS THE PURSUIT OF NEVER-ENDING IMPROVEMENT IN PRODUCT QUALITY AND BUSINESS SYSTEMS.

METHODS TO BE EMPLOYED IN ATTAINING THIS GOAL WILL INCLUDE NEW PRODUCT QUALITY PLANNING, EMPLOYEE TRAINING, AND UTILIZATION OF EMPLOYEE INVOLVEMENT GROUPS TO SOLVE PROBLEMS.

IN AN INCREASINGLY COMPETITIVE MARKETPLACE, ENSURING CUSTOMER SATISFACTION IS ONE OF THE DIFFERENTIATORS THAT SETS YOU APART FROM THE PACK AND YIELDS A COMPETITIVE ADVANTAGE.

THEREFORE, WE WILL SUPPORT TOTAL CUSTOMER SATISFACTION BY IMPLEMENTING THE **ISO 9001 QUALITY SYSTEM** AND PROVIDING THE NECESSARY ATMOSPHERE AND TRAINING TO NURTURE THIS CONCEPT THROUGHOUT OUR ORGANIZATION.

WE WILL MAKE EVERY BUSINESS DECISION AS THOUGH THE QUALITY OF THE PART OR SERVICE PROVIDED WAS DESTINED FOR OUR OWN OR OUR FAMILY'S USE. WE WILL ALWAYS THINK **QUALITY FIRST.**

EVERY T.A. PELSUE COMPANY EMPLOYEE IS EXPECTED TO COMMIT TO THIS PHILOSOPHY IN THE PERFORMANCE OF HIS OR HER DAILY TASKS.

QUALITY FIRST!

T.A. PELSUE COMPANY SENIOR MANAGEMENT TEAM

Pelsue Product Warranty:

All Pelsue products are warranted against defects in materials and workmanship in accordance with their individual warranty statement. Warranty does not cover: normal wear and tear, modifications, improper storage, corrosion, or user neglect. Equally excluded from the warranty are damgage due to accidents, negligence and uses for which the product was not designed.

Warranty Coverage*

Pelsue General Workmanship	3 years
Body/Frame/Skeleton	6 years
Running Gear (not including bearings or brakes)	5 years
Other Structure (Doors, Windows, Interior Finish, etc.)	1 year
Gensets (Onan Brand)	2 years or 2000 hours
Gensets (Honda Brand)	2 years (engine) 1 year (electrical & frame)
Other Components (AC, Lights, Circuit Breakers Cabinets, etc.)	1 year
Pelsue Painted or Plated FInishes	1 year
Ventilation Ducts (Blower Hoses)	3 months

*From date of shipment to original buyer.

2.0 - Trailer Information

This section will describe where to find important trailer data such as Serial Numbers. Also provided is space for recording of this data.

2.1 - Trailer Data Plates

The Pelsue FIber Optic Splicing Trailer is equipped with a serial number plate and a trailer data plate. The serial number plate is mounted just inside the curbside door on the cabinets, the data plate is mounted on the outer body on the streetside front corner.

Figure 2a. Location of Trailer Serial Number Plate.

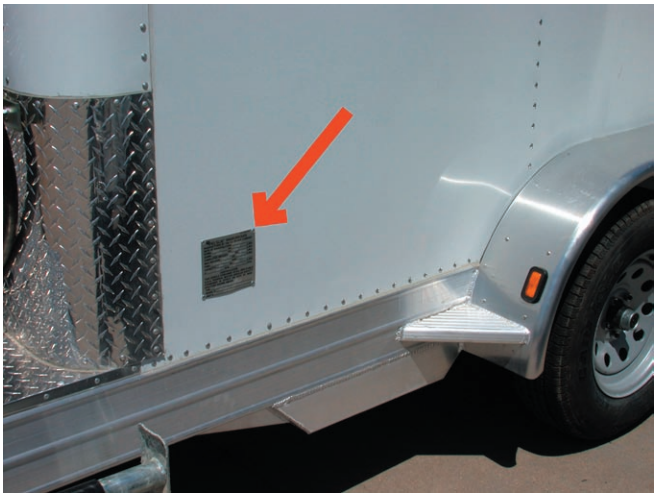


Figure 2b. Location of Trailer Data Plate.

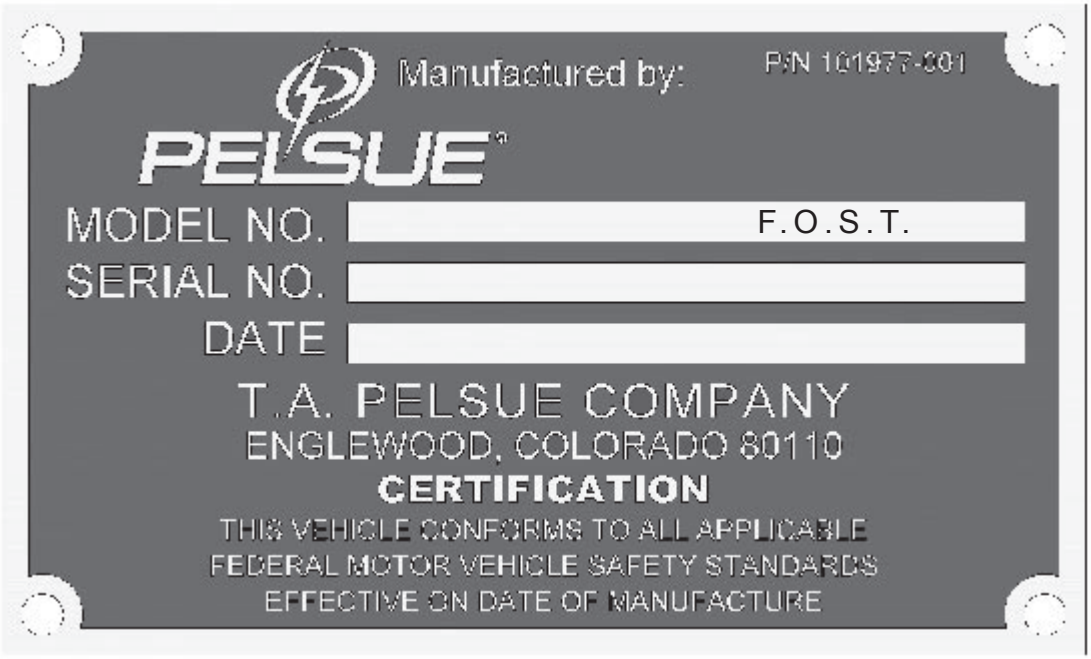


Figure 2c. Serial Number Plate
(Record Appropriate Data Here)

2.1 - Trailer Data Plates Continued

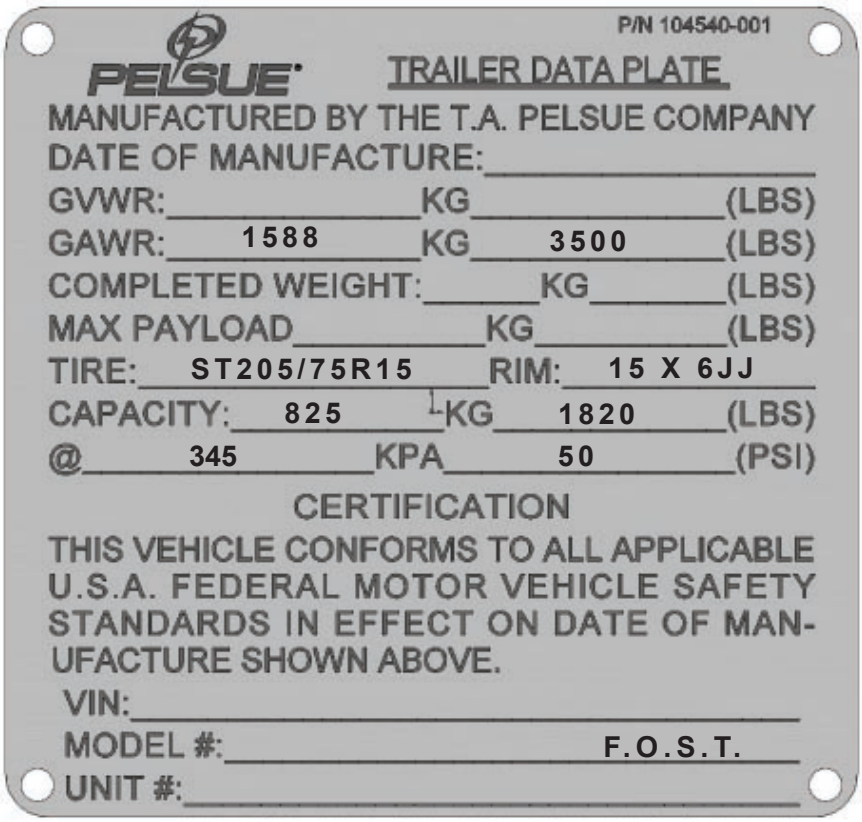

P/N 104540-001
PELSUE
TRAILER DATA PLATE
MANUFACTURED BY THE T.A. PELSUE COMPANY
DATE OF MANUFACTURE:
GVWR: KG (LBS)
GAWR: 1588 KG 3500 (LBS)
COMPLETED WEIGHT: KG (LBS)
MAX PAYLOAD KG (LBS)
TIRE: ST205/75R15 RIM: 15 X 6JJ
CAPACITY: 825 KG 1820 (LBS)
@ 345 KPA 50 (PSI)
CERTIFICATION
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S.A. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON DATE OF MANUFACTURE SHOWN ABOVE.
VIN:
MODEL #: F.O.S.T.
UNIT #:

Figure 2d. Trailer Data Plate
(Record Appropriate Data Here)

Note:
- Portions of the above data plates have been left blank to allow information specific to each trailer to be filled in by the owner.

Depending on options & rating selected:
- The GVWR of the 11 foot trailer (EL & SE series) can be between 2268 KG & 3175 KG (5000-7000 LBS.)
- The GVWR of the 13 foot trailer (EX & SX series) is 3175 KG (7000 LBS)

2.2 - Equipment Data

Certain installed components have serial numbers of their own that should be recorded for future reference. Space is provided below for the recording of important serial numbers.

A.C. SERIAL NO._____

GENSET SERIAL NO._____

3.0 - Trailer Operation & Usage

3.1 - Towing Instructions

The FOST may be equipped with either a Lunette Eye or a Ball Coupler for a hitching mechanism, depending upon selected options.

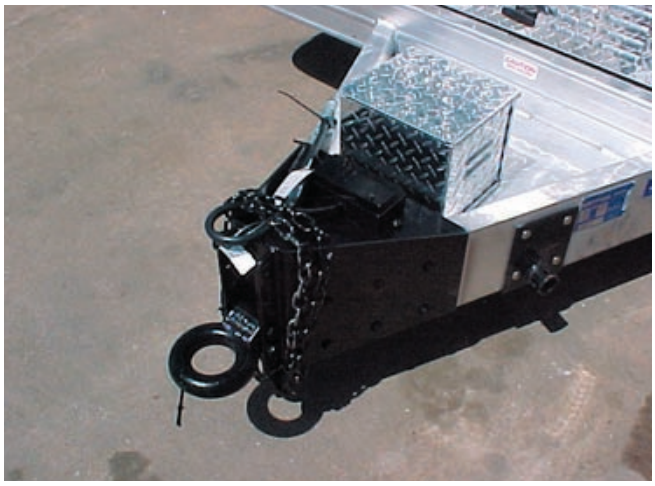


Figure 3a. Lunette Eye

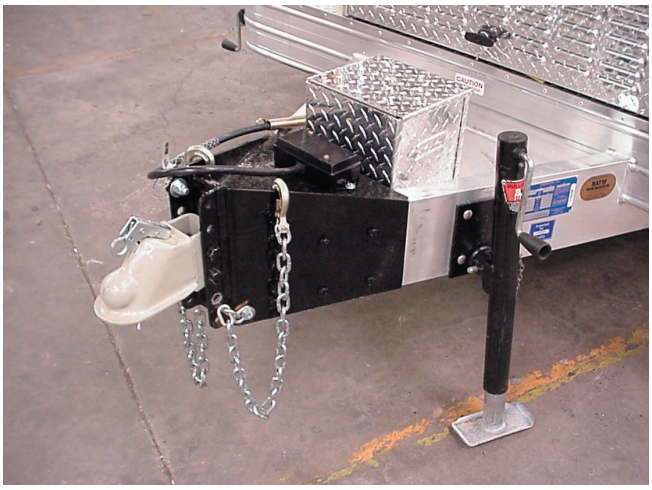


Figure 3b. Ball Coupler

Before Towing the Pelsue Fiber Optic Splicing Trailer please follow the hitching instructions provided below.

1. To couple the trailer to the tow vehicle utilize the trailer's tongue jack in order to vertically align the trailer's coupler with the tow vehicle's hitch point (the height of the eye or coupler may have to be adjusted within the hitch channel, via the two mounting bolts, in order to achieve proper vertical alignment for a level trailer towing stance).

   Note: The lunette eye or ball coupler supplied with your trailer is mounted within a channel allowing for height adjustment of the hitch. The hitch is fastened within this channel using 2x) 5/8-11 UNC x 4-1/2" long Grade 5 Hex Head Cap Screws and 2x) 5/8-11 UNC center-lock nuts. Center-Locking nuts utilize a deformed thread mechanical fastening system, **the nut and accompanying screw are good for a single use only**. If height adjustment of hitch is needed, new Grade 5 cap screws and new center-lock nuts must be used. The new fasteners should be torqued to 135 ft-lbs. **Care should be taken so as not to overtighten the fastener, any threaded fastener can fracture due to excessive tightening torque!**

2. Back the tow vehicle to the trailer;
   Lunette Eye - Until the trailer's lunette eye rests inside the vehicle's open pintle hook.
   OR
   Ball Coupler - Until the trailer's ball coupler is directly above the vehicle's ball hitch.

3. Lower the trailer tongue with the tongue jack until the lunette eye contacts the base of the pintle hook or until the ball coupler fully recesses onto the ball hitch.

4. Close the pintle hook or ball coupler and insert the locking pin.

5. Connect the safety chains to the tow vehicle by crossing the chains underneath the trailer tongue. Ensure chains are of proper length in order to allow for turning of the vehicle.

6. Connect the trailer light connector to the receptacle on the tow vehicle.

7. Check the operation of the breakaway device by removing the pin from the box by pulling on the cable. Connect the breakaway device (if-equipped) to a secure point on the back of the tow vehicle by making a secure loop with the cable. Finally, re-insert the breakway pin completely into the breakaway device. The breakaway device will activate the trailer brakes if the trailer becomes separated from the tow vehicle. Such a device, in operational condition, is required in most areas for such a trailer.

   ! CAUTION ! - Do not secure the breakaway cable at the same location as the safety chain hooks or at any point where there are sharp edges that could damage the cable. The safety hooks or other sharp edges can sever the cable in a trailer breakaway situation causing non-operation of the trailer brakes.

   Electric Brakes - Breakaway cable will be attached to the breakaway device (black box) located on the curb side of the trailer tongue.

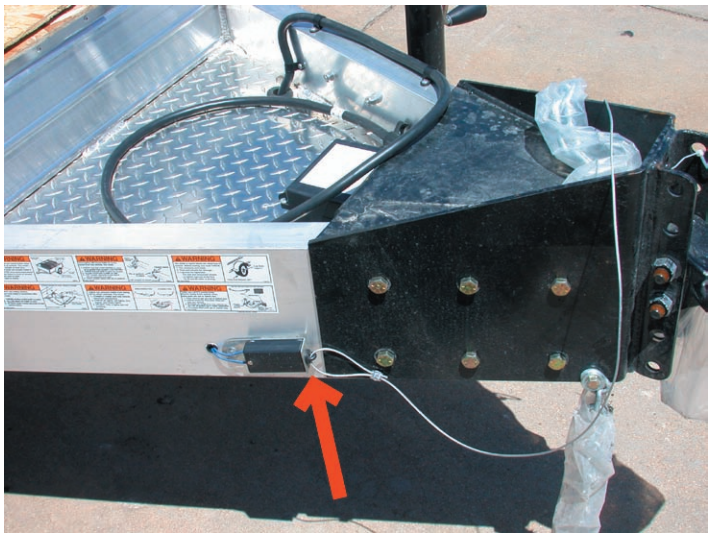


Figure 3c. Breakaway Device for Trailers with Electric Brakes

3.1 - Towing Instructions Continued

Hydraulic Brakes - Breakaway cable will be attached to the master cylinder lever at the top of the brake actuator located on the trailer tongue.

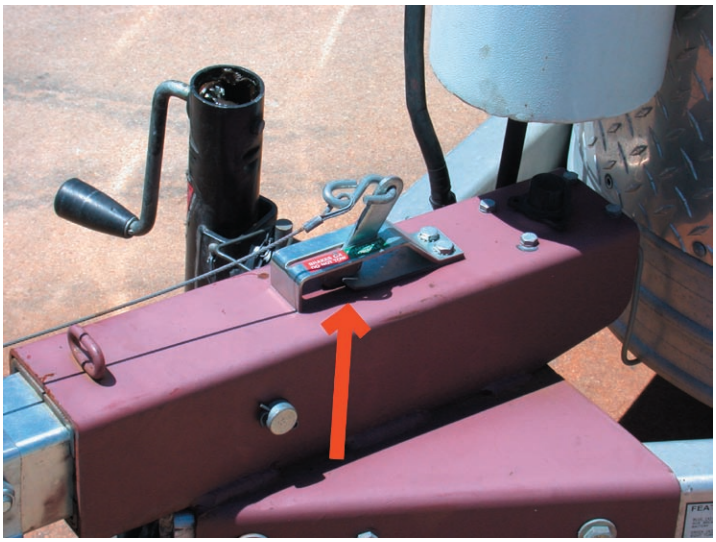


Figure 3d. Breakaway Device for
Trailers with Hydraulic Brakes

8. Remove the pin from the tongue jack pivot and swing to its stored (horizontal) position, insert pin to lock the jack in place.

9. Perform a visual light check of the trailer in order to ensure the proper operation of all stop, tail, and directional lights.

3.2 - Operating Instructions

The following section contains general operating instructions for proper use of your Pelsue Fiber Optic Splicing Trailer. Refer to this for daily maintenance checks, starting and stopping instructions and operation of lights, air conditioners and other installed equipment.

3.2.1 - Daily Equipment Check

Please refer to the following operating instructions prior to first operating your trailer.

I. Before Starting: Daily Equipment Check

a. Check fuel and oil levels, fill if necessary.
b. Check connections on battery.
c. Visually inspect all wires and fuel lines for damage.
d. Check to make sure exhaust outlet is clear and away from all combustibles. Ensure that the silencer and piping are tight and in good condition.
e. Check tire pressures and inflate as needed.

II. Starting

a. Check control panel to be sure that all the system switches and circuit breakers are in the off position. The genset must be started in a no load condition.

b. - **If equipped with remote electric start:** Locate the control panel or remote start panel (refer to figures 3e and 3f) inside the curbside door of your trailer, hold the Start/Stop switch in the start (up) position for 5 seconds or until engine starts.

Figure 3e. Onan Control Panel

Figure 3f. Honda Remote Start Panel

- If equipped with electric start: Locate the control panel on the genset.

- For Onan generators: Open door of aluminum housing and remove access panel. Hold the Start/Stop switch in the start (up) position for 5 seconds or until the engine starts.

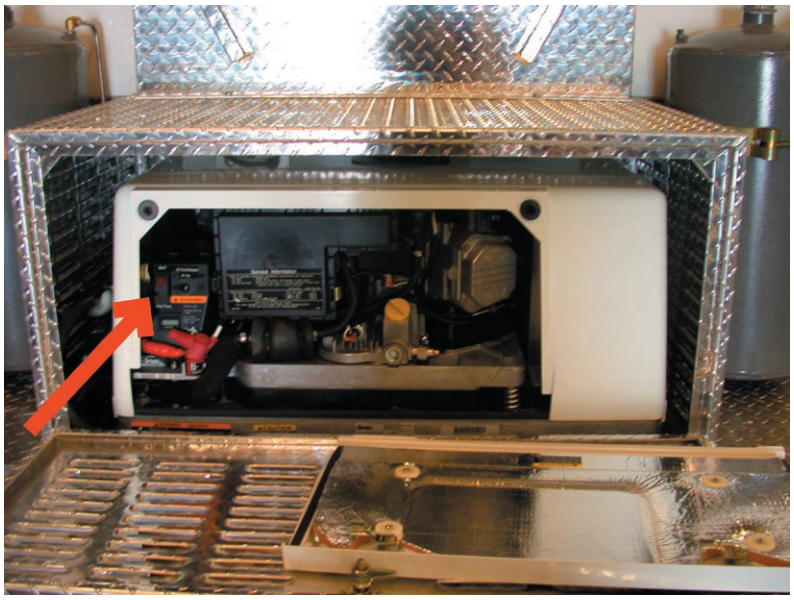


Figure 3g. Onan Control Panel at Genset

- For Honda generators: Open curbside door of aluminum housing, turn the fuel valve lever to the ON position, lever is located just under the fuel tank at the trailer side, left, of the generator. Insert the key and turn the engine switch to the START position and hold it there for 5 seconds or until the engine starts, refer to figure 3h for key location.

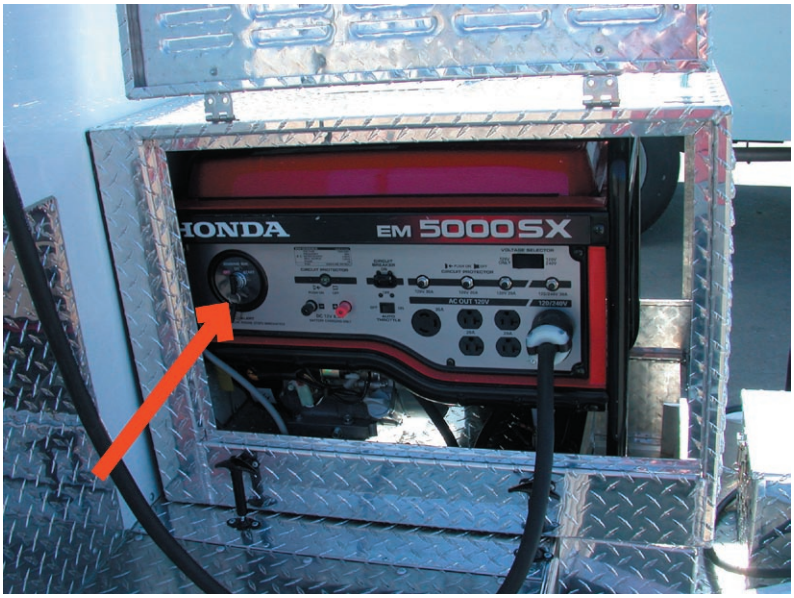


Figure 3h. Honda Control Panel at Genset

- **If equipped with pull start:** turn the fuel valve lever to the ON position, lever is located just under the fuel tank at the trailer side, left, of the generator. Locate the starter rope on the side of the generator, pull the grip lightly until resistance is felt, then pull briskly.

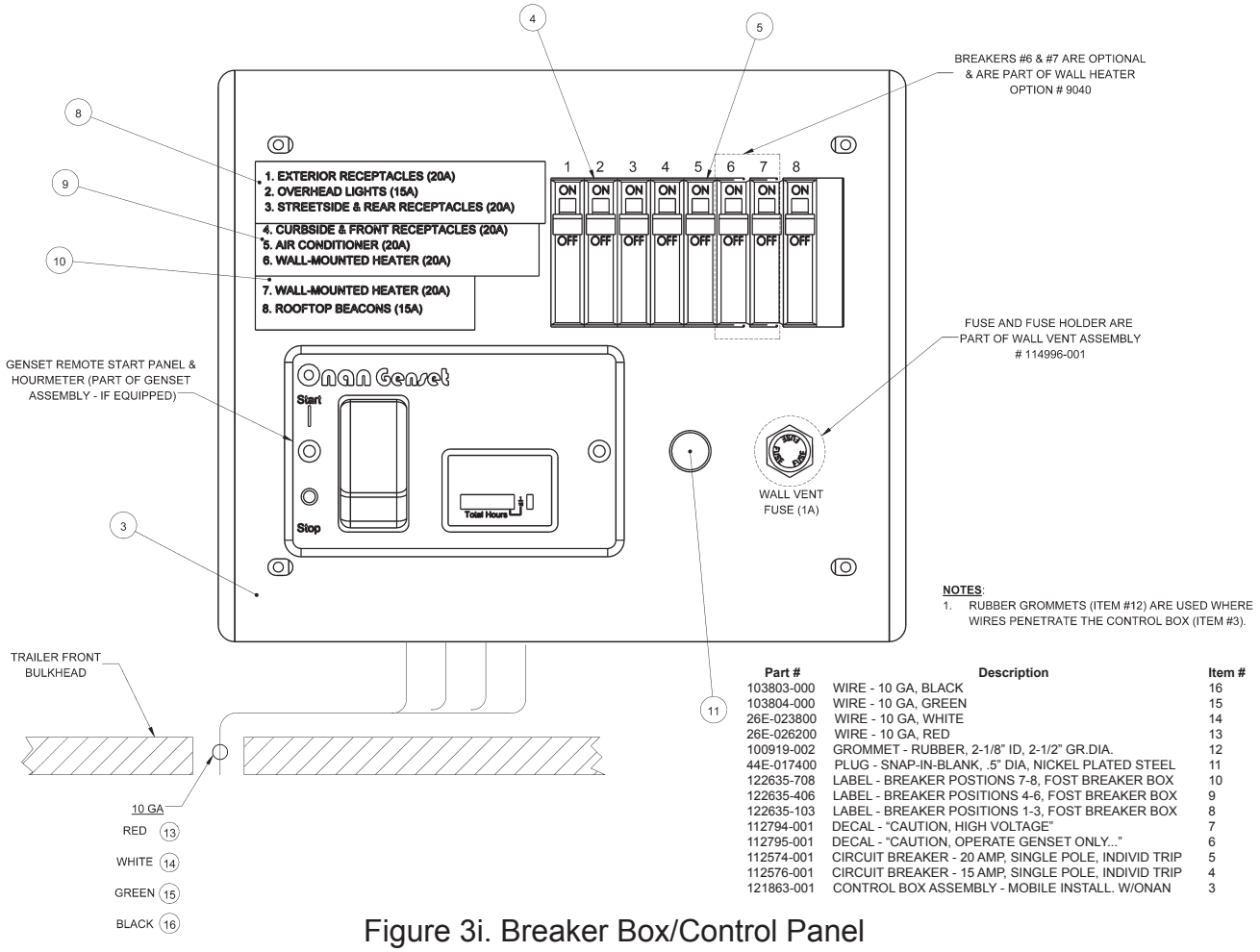
c. Normally the engine will start within 3 seconds. However, if the engine fails to start after cranking for 5 seconds, release the switch. Wait for the engine to come to a complete stop before attempting to restart. Do not crank the engine continuously for more than 10 seconds at a time.

* NOTE: Replace insulated access panel on Onan Genset units immediately after starting. Overheating will occur if genset is operated with access panel removed.

III. General Operation

a. Breakers:

- All circuits on this trailer are breaker protected, the breaker box is located on the wall just inside the curbside door. A drawing of the breaker box is shown below in figure 3i. Check breakers first when equipment does not work.


BREAKERS #6 & #7 ARE OPTIONAL & ARE PART OF WALL HEATER OPTION # 9040
1. EXTERIOR RECEPTACLES (20A)
2. OVERHEAD LIGHTS (15A)
3. STREETSIDE & REAR RECEPTACLES (20A)
4. CURBSIDE & FRONT RECEPTACLES (20A)
5. AIR CONDITIONER (20A)
6. WALL-MOUNTED HEATER (20A)
7. WALL-MOUNTED HEATER (20A)
8. ROOFTOP BEACONS (15A)
1 2 3 4 5 6 7 8
ON
OFF
GENSET REMOTE START PANEL & HOURMETER (PART OF GENSET ASSEMBLY - IF EQUIPPED)
Onan Genset
Start
Stop
Total Hours
FUSE AND FUSE HOLDER ARE PART OF WALL VENT ASSEMBLY # 114996-001
WALL VENT FUSE (1A)
TRAILER FRONT BULKHEAD
10 GA
RED 13
WHITE 14
GREEN 15
BLACK 16
NOTES:
1. RUBBER GROMMETS (ITEM #12) ARE USED WHERE WIRES PENETRATE THE CONTROL BOX (ITEM #3).

Part #	Description	Item #
103803-000	WIRE - 10 GA, BLACK	16
103804-000	WIRE - 10 GA, GREEN	15
26E-023800	WIRE - 10 GA, WHITE	14
26E-026200	WIRE - 10 GA, RED	13
100919-002	GROMMET - RUBBER, 2-1/8" ID, 2-1/2" GR.DIA.	12
44E-017400	PLUG - SNAP-IN-BLANK, .5" DIA, NICKEL PLATED STEEL	11
122635-708	LABEL - BREAKER POSTIONS 7-8, FOST BREAKER BOX	10
122635-406	LABEL - BREAKER POSITIONS 4-6, FOST BREAKER BOX	9
122635-103	LABEL - BREAKER POSITIONS 1-3, FOST BREAKER BOX	8
112794-001	DECAL - "CAUTION, HIGH VOLTAGE"	7
112795-001	DECAL - "CAUTION, OPERATE GENSET ONLY..."	6
112574-001	CIRCUIT BREAKER - 20 AMP, SINGLE POLE, INDIVID TRIP	5
112576-001	CIRCUIT BREAKER - 15 AMP, SINGLE POLE, INDIVID TRIP	4
121863-001	CONTROL BOX ASSEMBLY - MOBILE INSTALL. W/ONAN	3

Figure 3i. Breaker Box/Control Panel

b. Genset:

- Your trailer can be equipped with a wide range of generators. For specific operating instructions on your generator please refer to the generator manual included with the trailer.
- For trailers equipped with portable generators the streetside door on the aluminum housing will need to be open while the genset is running to allow for proper exhaust gas ventilation and cooling, this is shown in figure 3j on the next page. The curb side door may be closed after starting if desired.

Figure 3j. Doors Open for operation on Select Series Genset Housing

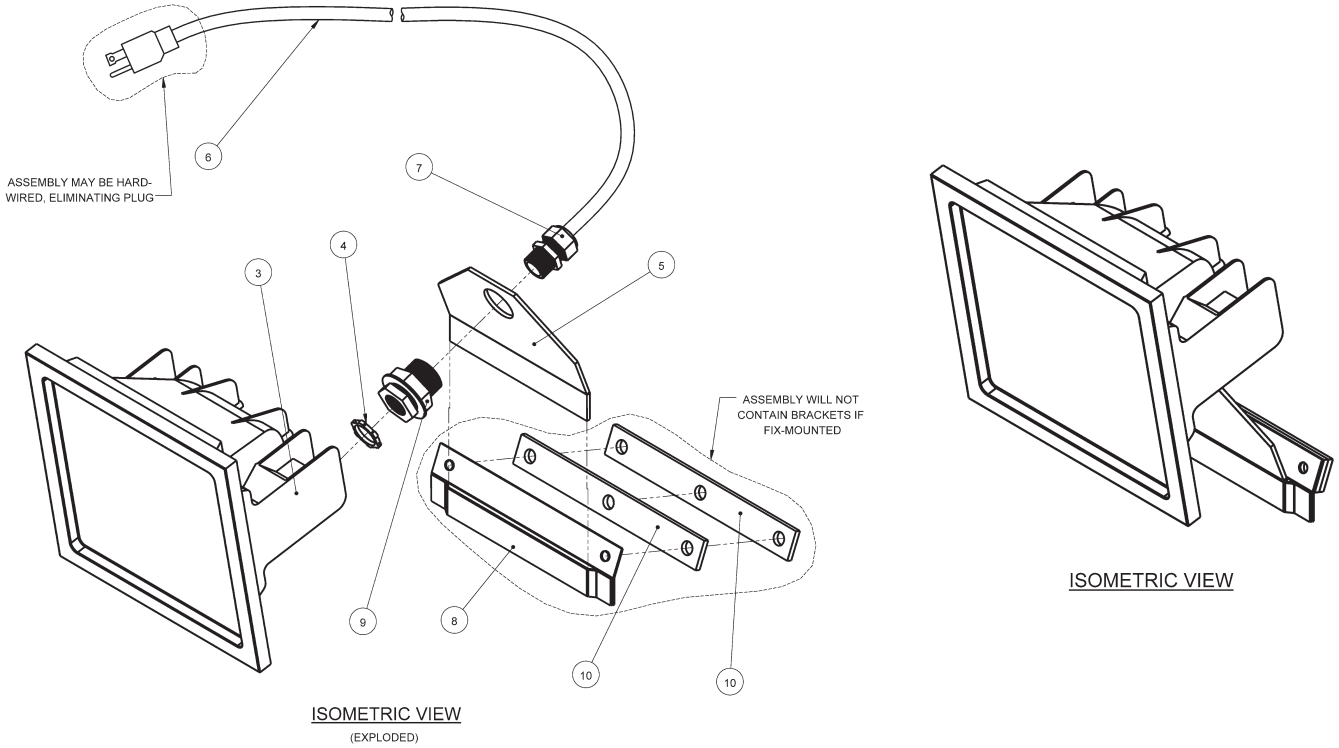
c. Wall Vent:
Your trailer is equipped with an exhaust fan located on the streetside wall. This fan runs continuously while the generator or shore power connection is supplying voltage to the trailer. There is a fuse for this fan located on the control panel. The fuse is labeled “Wall Vent Fuse”, if the fan fails to operate, check the fuse first and replace if necessary.

d. Air Conditioner:
Your trailer is equipped with a 13,500 BTU, 120 VAC, rooftop mounted air conditioner. For operating instructions refer to the manual for the air conditioner, included with the trailer.

e. Floodlight:
Most trailers are equipped with a 500-Watt, halogen quartz, repositionable work light. There is always a storage bracket located inside the trailer, as shown in figure 3k. Multiple brackets can be mounted on the trailer’s exterior, the most common locations are shown in figure 3l. Refer to figure 3m for an exploded view diagram and parts list.

Figure 3k. Interior Storage Bracket

Figure 3l. Exterior Mounting Bracket Locations



Part #	Description	Item #
109581-001	SPACER - FEMALE FLOOD LIGHT MOUNTING BRACKET	10
112688-001	FITTING - COUPLING, ANCHOR, 1/2” FNPT	9
102720-001	FLOODLIGHT BRACKET HOLDER	8
100405-004	STRAIN RELIEF - WATERTIGHT, 1/2” HUB	7
26E-005700	CORD & PLUG SET - 16/3 S0, 12 Ft. Lg. RATED	6
110666-001	FLOODLIGHT BRACKET	5
44E-007600	LOCKNUT - CONDUIT, 1/2” (TIGER NUT)	4
104161-001	FLOODLIGHT - 500WATT QUARTZ HALOGEN, FIXTURE & BULB	3

Figure 3m. Exploded View of Floodlight

IV. Stopping

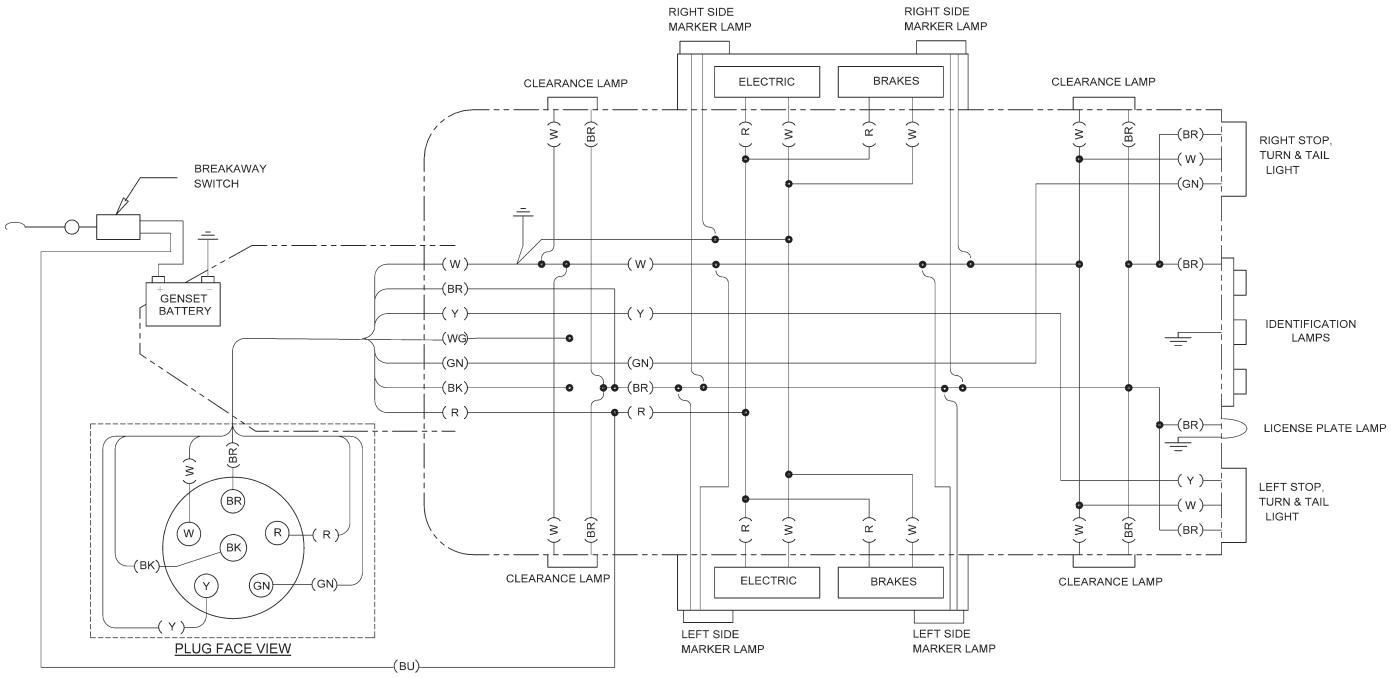
a. Turn off all system switches and circuit breakers.
b. Run the genset at no load for 5 minutes to allow the engine to cool down.
c. Hold the Start/Stop switch, located inside or at the genset depending on options, in the stop (down) position, or turn the key at the genset to the OFF postion, until the genset completely stops.
d. Turn the fuel valve lever to the OFF position on the genset, if equipped.

4.0 - Trailer Wiring

The following section contains information on the overall wiring of the trailer.

4.1 - 6 Pole Connector - Without Junction Box

Shown in figure 4a is the standard plug without a junction box, included with most select series trailers



PLUG LEGEND, 6-WAY PLUG

W = WHITE = GROUND
BR = BROWN = MARKER & TAIL LIGHTS
Y = YELLOW = LEFT TURN/ STOP
WG = WHITE W/ GREEN = NOT USED
GN = GREEN = RIGHT TURN/ STOP
BK = BLACK = AUXILLARY
R = RED = ELECTRIC BRAKES
BU = BLUE = BREAKAWAY CIRCUIT

Figure 4a. Wiring Diagram - Trailer Lights & Brakes
(Without Junction Box)

4.2 Light/Brake Wiring - With Junction Box

The following is a diagram of the trailer wiring up to the junction box, located on the tongue of the trailer, the three sections that follow will contain three different plug configurations and the color code for them up to the junction box.

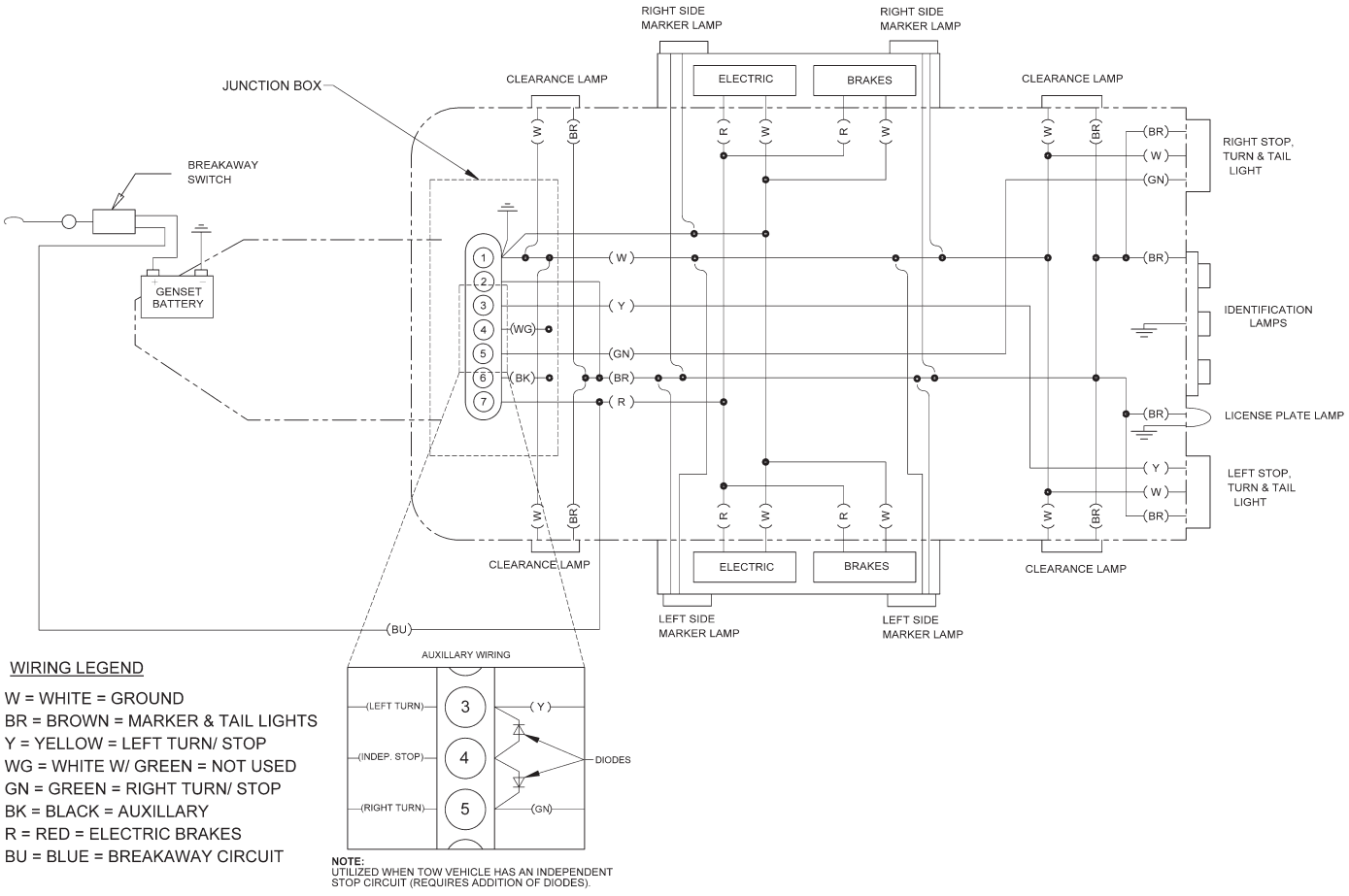
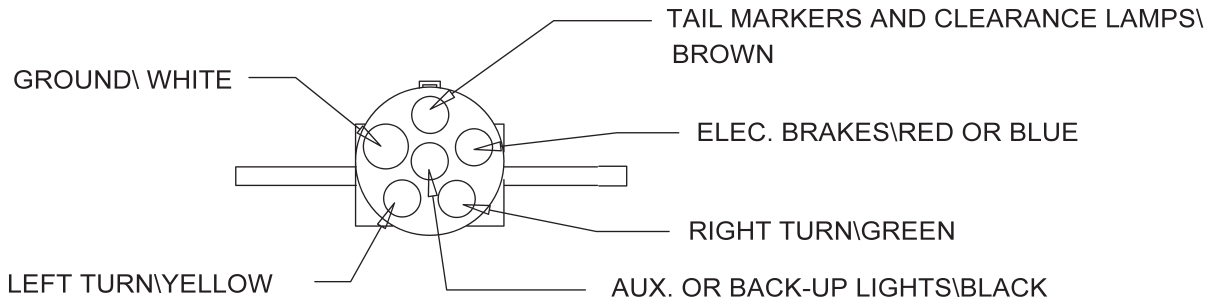
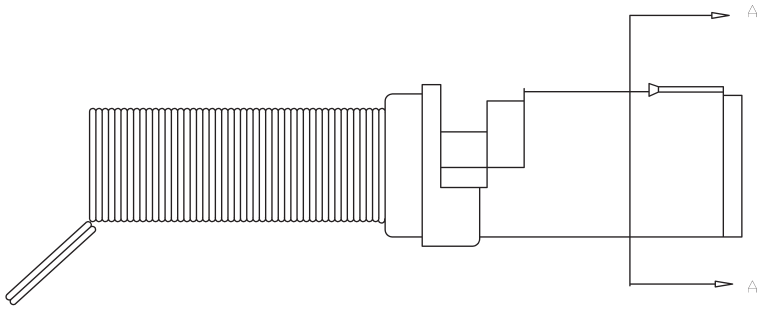


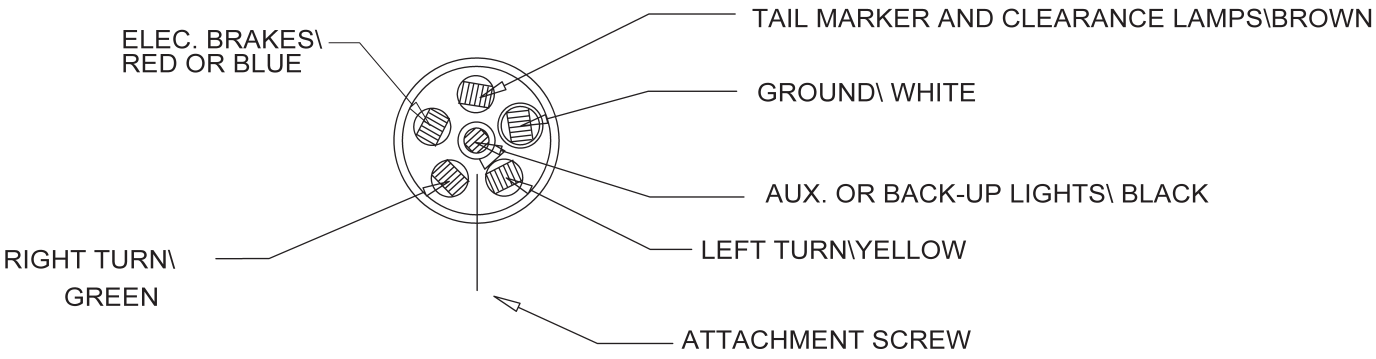
Figure 4b. Wiring Diagram - Trailer Lights & Brakes
(Shown up to Junction Box)

4.3 6 Pole Connector - With Junction Box



FRONT VIEW OF PLUG HEAD



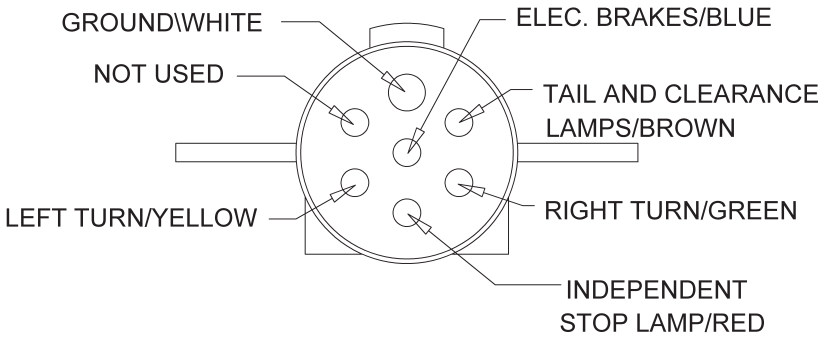


REAR VIEW OF PLUG HEAD

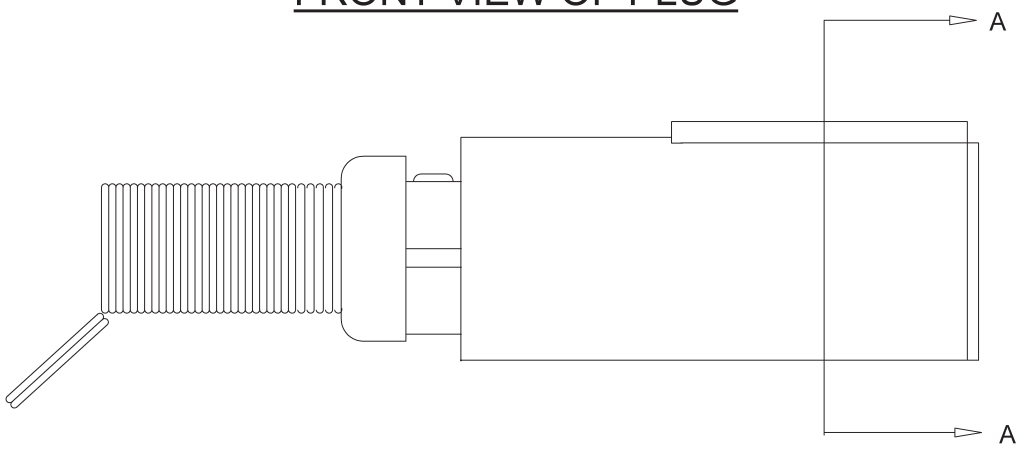
SECTION A-A

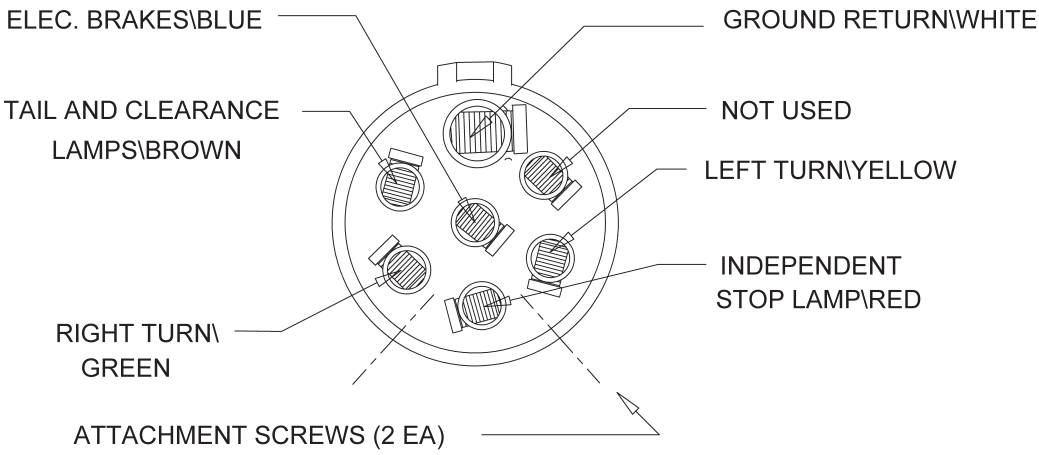
Figure 4c. Wiring Diagram - 6 Pole Round Trailer Plug

4.4 7 Pole Connector - Cole Hersee



FRONT VIEW OF PLUG



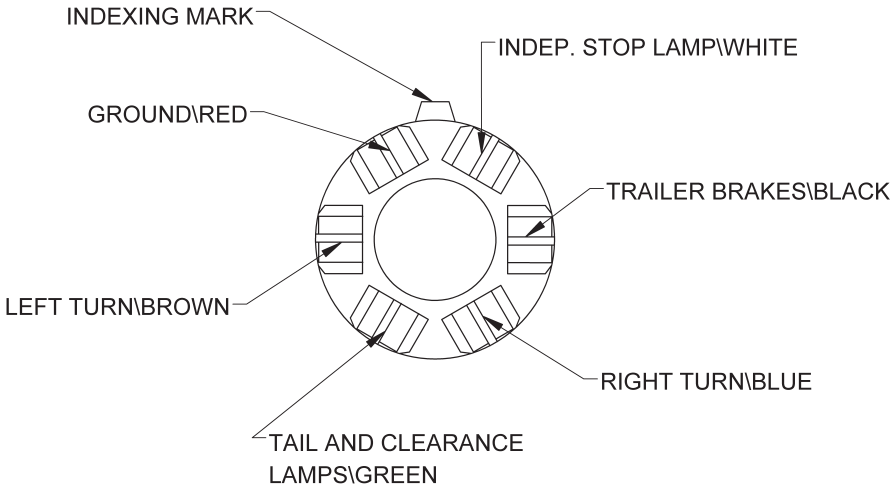


REAR VIEW OF PLUG HEAD

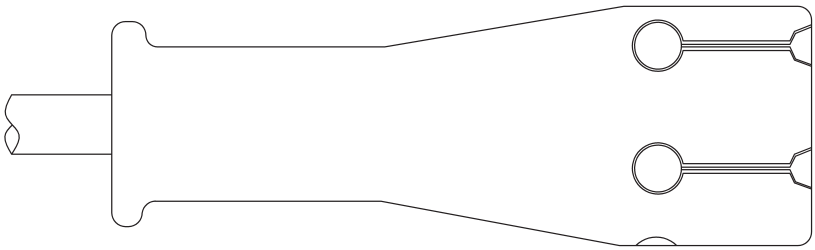
SECTION A-A

Figure 4d. Wiring Diagram - 7 Pole Round Trailer Plug

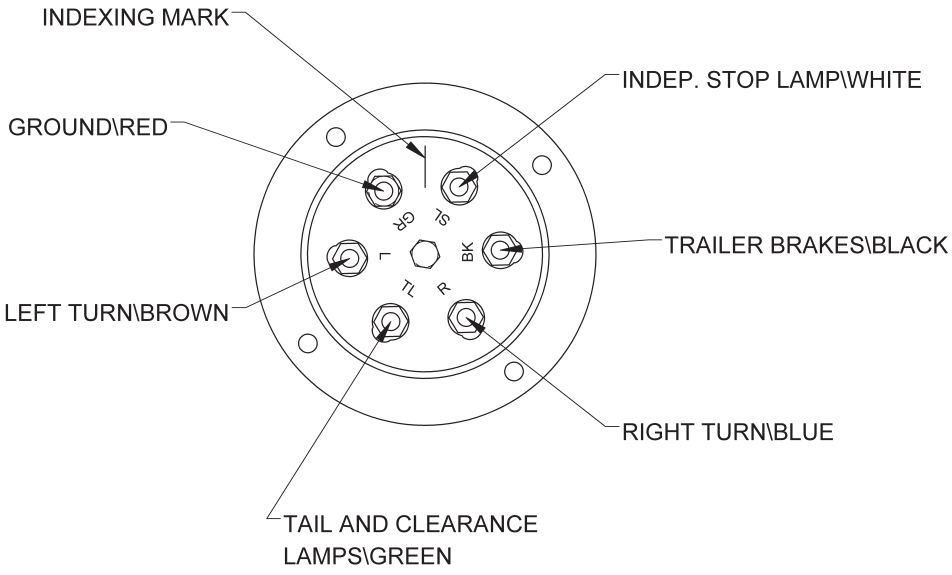
4.5 6 Pole Connector - Warner



FRONT VIEW OF PLUG



SIDE VIEW OF PLUG



REAR TERMINALS OF SOCKET

Figure 4e. Wiring Diagram - 6 Pole Warner Plug/Socket

4.6 Trailer Wiring Diagram

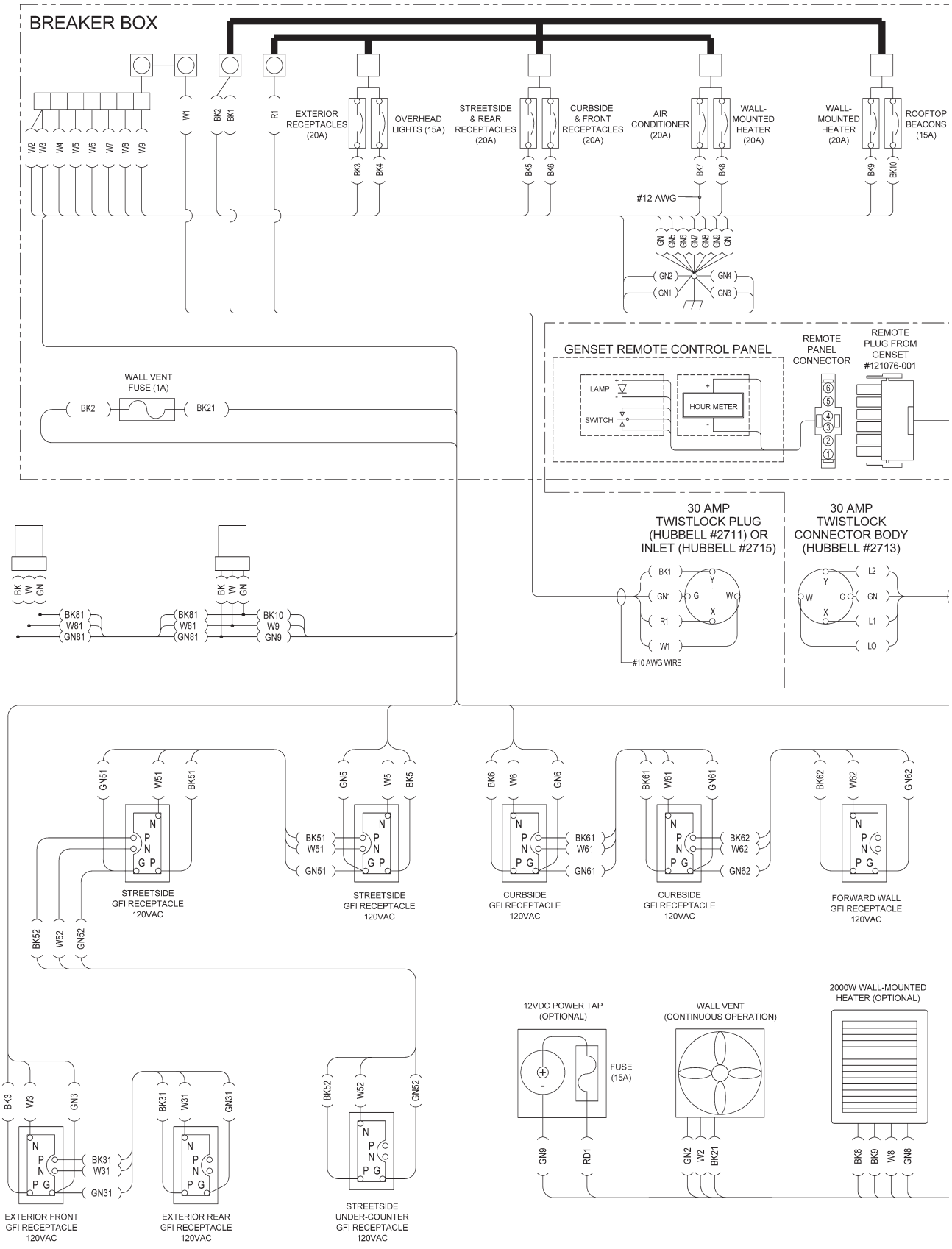


Figure 4f. Wiring Diagram - FOST

4.6 Trailer Wiring Diagram Continued

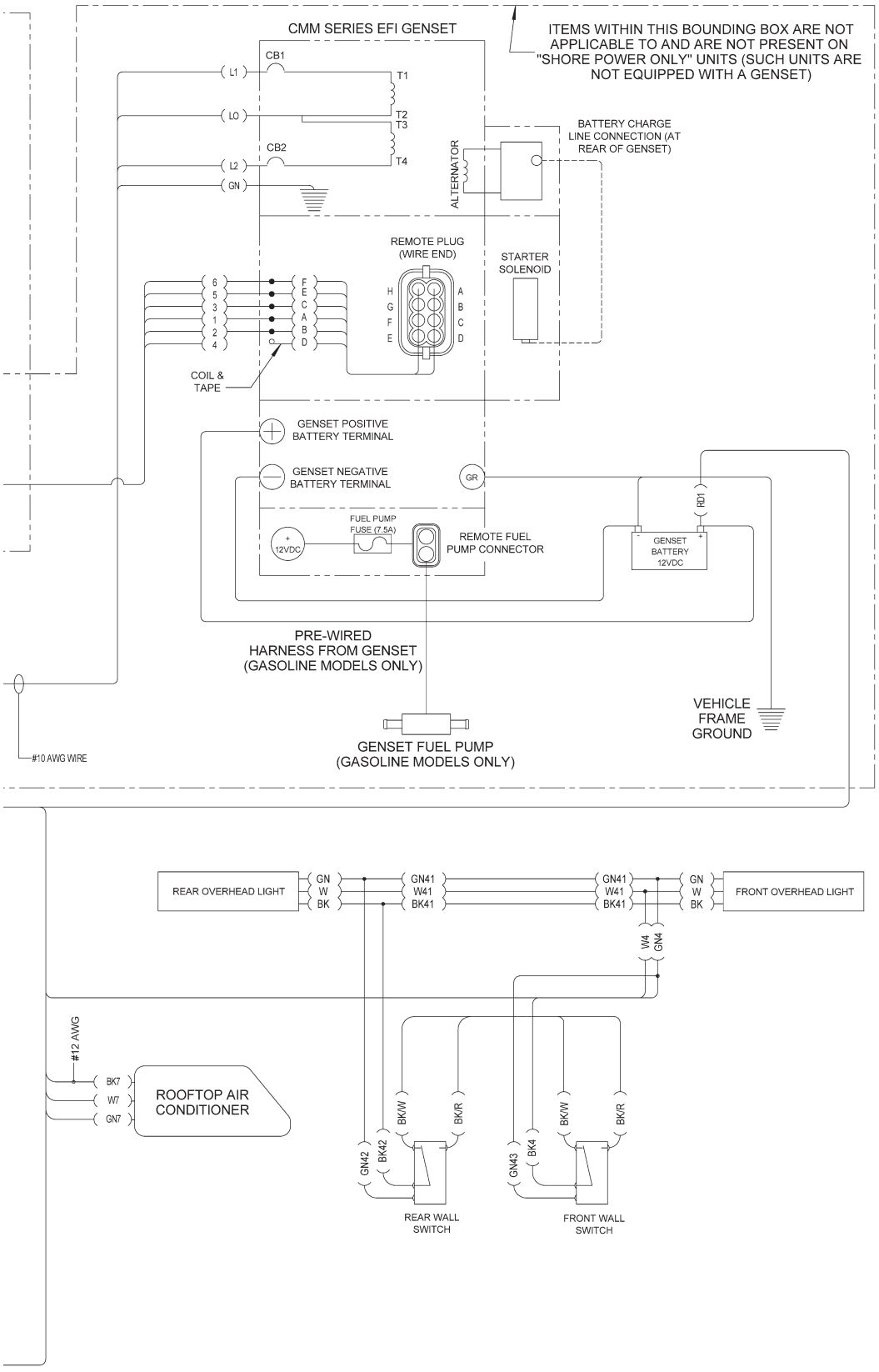


Figure 4f. Wiring Diagram - FOST

5.0 - Maintenance

The following section covers maintenance of the trailer and the trailer's installed components.

5.1 Trailer Chassis

Body & Frame: Pelsue fiber optic splicing trailers are constructed utilizing an all aluminum frame and body structure. Aluminum has been chosen for its strength, lightweight, and corrosion resistance. The aluminum body structure will provide many years of reliable service while not being plagued by rust as will it's lesser steel counterparts. The aluminum chassis will require little to no maintenance except for the occasional washing in order to remove road debris and salt spray that may prematurely weather and wear the aluminum surfaces.

Running Gear: Pelsue fiber optic splicing trailers utilize simple and reliable rubber torsion axles in a tandem setup for their running gear. The trailer hubs are equipped with an exclusive feature that allows the greasing of the axle hubs without removing the wheels or hubs from the trailer.

Consult the included trailer chassis manual regarding procedures and intervals for required maintenance and service on the trailer chassis and running gear.

5.2 Genset & Genset Installation

Wiring: Wiring connections between the trailer and genset and the battery and genset should be checked periodically to ensure tight and complete connections. Any loose connections, worn insulation, or broken wires must be replaced immediately. Periodically, the battery posts should be lubed with high-quality dielectric grease in order to minimize corrosion of the battery terminals.

Fuel System: Fuel lines, whether gasoline or propane, should be visually inspected at regular intervals. Any chaffing of propane or fuel lines will require immediate replacement. A gasoline fuel pump (on EL & EX gasoline models) is located underneath the trailer tongue deck at the curbside of the trailer, periodically this fuel pump should be checked for damage and proper operation.

Genset: Required maintenance and service intervals will vary widely between makes and models of genset. The user should consult the manufacturers genset operation manuals (included with trailer) for the required service procedures and intervals. Complete manufacturer's factory parts, service and technical manuals are available through Pelsue for all gensets and engines.

5.3 Maintenance Record

Provided on the next two pages is a maintenance record table intended for use in recording service procedures for further reference. Performed maintenance procedures can be recorded within the following table. Additional pages can be copied and inserted if desired. In addition, a decal version of the table has been supplied on the interior surface of the curbside door of the trailer, if it is preferable to record service procedures at the trailer itself. Additional maintenance record decals (part #103991-001) are available from Pelsue.

5.3 Maintenance Record Continued

See Your Generators Owners Manual for Service Requirements and Intervals			
Date	Hours	Service Performed	Initials

5.3 Maintenance Record Continued

See Your Generators Owners Manual for Service Requirements and Intervals			
Date	Hours	Service Performed	Initials

6.0 - Safety

The following section covers general safety guidelines to follow when using the Pelsue Fiber Optic Splicing Trailer.

6.1 General Safety

The trailer is equipped with several warning labels, please read and heed all warnings affixed to the trailer.

Figure 6a. Caution Decal # 112795-001

Figure 6b. Caution Decal # 112794-001

Figure 6c. Decal # 112793-001

6.2 Propane Safety

MANY FIBER OPTIC SPLICING TRAILERS ARE EQUIPPED WITH PROPANE FUELED GENERATORS. THE FOLLOWING ARE SOME GENERAL SAFETY GUIDELINES TO FOLLOW WHEN WORKING WITH & AROUND PROPANE.

- Propane is dangerous, as is ANY fuel because of its very nature and purpose - it is FLAMMABLE. Read and follow the safety precautions when using any propane-fueled system.

- USE COMMON SENSE! Most accidents can be avoided by using common sense and concentrating on the job to be done.

- AVOID SUBJECTING PROPANE TANKS TO EXCESSIVE HEAT AND HARD ABUSE. Propane tanks should never be placed close to a fire, and should be kept out of direct sunlight if possible. Exercise care in handling to avoid dropping or abusive treatment.

- Prior to connecting the propane supply to any equipment, verify that the supply pressure is regulated down to the input requirements of the equipment.

- ALWAYS CHECK FOR LEAKS AFTER CONNECTING OR DISCONNECTING PROPANE TANK. The distinctive odor of propane gas should alert that a connection is leaking; check for leaks by applying a solution of soapy water at each connection. NEVER CHECK FOR LEAKS WITH AN OPEN FLAME! An undetected leak can cause extreme danger as a potential explosion hazard.

- Before shutting off hose-connected equipment, first turn off the fuel at the tank and allow the fuel in the hoses and piping to evacuate and burn. Then switch off the equipment.

- ALWAYS KEEP THE PROPANE TANK IN AN UPRIGHT POSITON WHILE IN USE.

- FOR OUTDOOR USE ONLY. Always maintain adequate ventilation when operating a propane system; the system discharges lethal carbon monoxide gases.

- Keep surrounding area free of all combustible material. Never light or relight a propane system if the surrounding air is saturated with excessive gas.

- Never transport or store equipment while it is connected to its fuel source. Make sure that the regulator or valve on the propane tank is tightly closed prior to transport. Always disconnect propane from system prior to transporting.

- USE PROPANE FUEL ONLY. Do not use natural gas or other fuels in equipment intended only for propane fuel.

NOTE: The information presented herein, while not guaranteed, was prepared by technical personnel and is true and accurate to the best of our knowledge. This information is not intended to be all-inclusive as the manner and conditions of use, handling, storage and other factors may involve other or additional safety or performance considerations. Safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any Federal, State or local laws.

7.0 - Troubleshooting

The following section contains information on troubleshooting & diagnosing some problems that may be encountered with the trailer.

7.1 Electric Brakes Troubleshooting

Problem	Possible Cause	Remedy
1. No Brakes	a. Open circuit	a. Check for broken wires, loose connections, improper grounding, faulty connector plug between trailer and vehicle.
	b. Improperly wired or inoperative controller	b. Rewire controller. Check controller operation.
	c. Poor brake adjustment	c. Adjust brakes
	d. Short circuit	d. Check electrical circuit
2. Intermittent or Surging Brakes	a. Inadequate trailer ground	a. Check for proper grounding
	b. Broken magnet lead wire	b. Check magnet, replace if necessary
	c. Loose wheel bearing	c. Check and adjust bearing
3. Weak Brakes	a. Poor connection	a. Check for clean & tight connections
	b. Poor ground	b. Do not ground through trailer hitch
	c. Short circuit	c. Check electrical circuit
	d. Worn or defective magnet	d. Replace
	e. Poor brake adjustment	e. Adjust brakes
4. Grabby or Locking Brakes	a. Grease on lining	a. Check for contamination. Replace seal and lining.
	b. Controller not modulating	b. Replace
	c. Loose parts in brakes	c. Check for broken springs, loose rivets, etc.
5. Dragging Brakes	a. Brakes not adjusted	a. Check brake adjustment, adjust if necessary
	b. Electrical defect in controller	b. Correct or replace
	c. Hydraulic defect in controller	c. Correct or replace

Figure 7a. Electric Brake Troubleshooting Table

7.2 Genset Troubleshooting

Troubleshooting procedures will vary widely between different makes and models of genset. The appropriate genset owner's manual, supplied with the trailer, should be consulted in order to correctly diagnose engine and/or generator problems.

Onan CMM Models: Onan CMM model gensets are the most commonly installed units on Pelsue fiber optic splicing trailers. Onan CMM models are programmed with a comprehensive set of diagnostic and troubleshooting codes internally. These codes are displayed via a series of flashing lights displayed on the genset's primary start/stop switch. This switch can be observed by removing the access panel located at the front of the genset. Instructions for observing and defining the troubleshooting codes are supplied in the "troubleshooting" section of the Onan Operator's Manual supplied with the trailer.

8.0 - Optional Equipment

8.1 Arrowboard (Option #9000)

A popular option on the Pelsue fiber optic splicing trailer is the 14-light telescoping and swiveling arrowboard. The arrowboard is useful in alerting motorists to and directing them around the worksite. The arrowboard is powered by 12VDC power supplied by the onboard genset starting battery. The arrowboard has several different settings which are displayed on the face of the control box. The control box is usually mounted on the front interior wall of the trailer (see figure 8b).

The arrowboard is raised and lowered by turning the handle of the manual hand winch located on the arrowboard stanchion. The arrowboard should always be lowered during transport of the trailer. The arrowboard can also swivel 360 degrees via its swiveling mount. To swivel the arrowboard, pull the spring-loaded handle located at the base of the plastic signboard. While the handle is pulled, the signboard can be rotated. There are locking detents at 90 degree intervals in order to secure the arrowboard at various rotations.

**Note: The arrowboard control box is equipped with a main power toggle switch on its bottom surface. When not in use, the main power switch should be placed in the “OFF” position. Even if the arrowboard is not in operation, a slow drain will occur on the battery if the main power toggle switch (located at the bottom) is not placed in the “OFF” position.

Figure 8a. Trailer w/ Arrowboard Installed

ARROW BOARD CONTROL BOX
NOTE: MOUNT BOX INSIDE CAB OUT OF WEATHER OR IN PROTECTIVE ENCLOSURE
WARNING
VISUALLY VERIFY CORRECT DISPLAY HAS BEEN SELECTED AND ALL LIGHTS ARE WORKING
DIM
BRIGHT
OFF
PELSUE

Figure 8b. Interior Arrowboard Control Box

8.2 Shield and Guard Carrier (Option #9004)

A shield and guard carrier is an optional piece of equipment that may be installed at the front of the trailer. This option provides a mounting point for a manhole shield (ring) and guard (fence). Straps are supplied with this option in order to secure the shield and guard during transport of the trailer.

Figure 8c. Shield and Guard Carrier

8.3 Wall Heater (Option #9040)

An available option for the fiber optic splicing trailer is a wall mounted heater. The heater is 240 VAC powered and provides 2000 Watt or 6820 BTU of heat. The heater is usually mounted on the front interior wall of the trailer near the breaker box. The heater is installed on a dedicated circuit with a 2-pole 20 Amp breaker located at the breaker box. The heater is equipped with a fan and has an adjustable heat setting knob located on the face of the heater.

Figure 8d. Wall Mounted Heater

8.4 Cable Clamp (Option #9027)

Mounted cable clamps are an available option for the Pelsue fiber optic splicing trailer. These clamps can mount in a variety of locations depending upon customer requirements. Usually these clamps are located at the cable access doors at the rear and curbside of the trailer. These clamps, when mounted, effectively hold cables in position and minimize the possibility of cable movement during a splice.

In order to place a cable in the clamp, lift up on the two red levers on either side of the clamp, this action will decompress the toggles. At this point, remove the center hold down bar and lay the cable on the gripping rubber surface. Replace the center hold down bar and depress the two red levers to compress the toggles and the clamping mechanism. The clamping action can be adjusted for differing thicknesses of cable by adjusting the threaded rod and nuts located at each of the rubber feet of the toggle mechanisms.

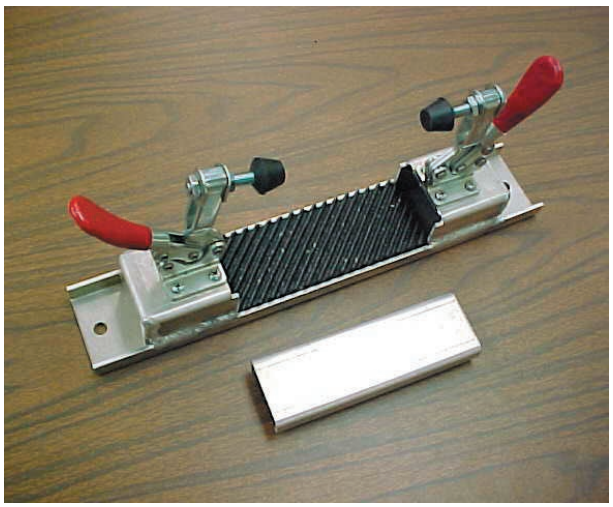


Figure 8e. Cable Clamp Open

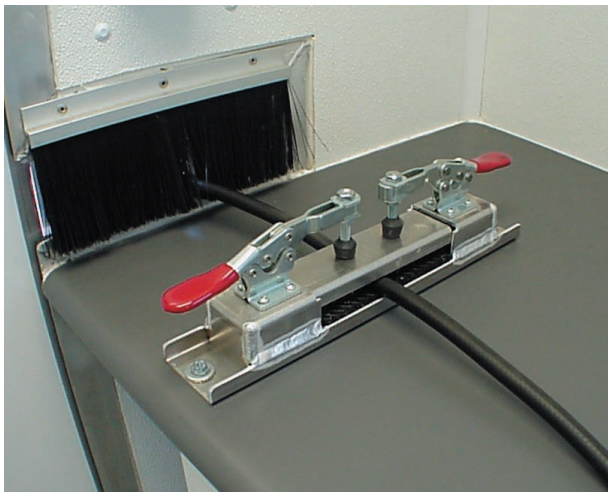


Figure 8f. Cable Clamp In Use

8.5 Other Options

Option #	Description
9000	Arrowboard Option - 14 Light, Telescopic/Swivel Forward Mount
9001	Cabinet Option - Additional Left Hand Single Door
9002	Tie Down Option - Recessed Floor Mount (6X)
9003	Propane Bottle Option - Telco Specification 40 LB. (2X)
9004	Shield & Guard Carrier Option - Front Exterior Mount
9005	CRT Monitor Stand Option - Wall Mounted Swing Away
9007	Cabinet Option - Additional 4 Drawer Module
9008	Wheel Chock Option - Model #5669 (1X) With Holder (1X)
9009	CD Stereo Option - Under Overhead Cabinet, AM/FM/CD/SPEAKERS
9010	Ball Coupler Option - 2-5/16” Ball Heavy Duty Channel Mount
9011	Tie Down Option - Recessed Floor Mount (8X)
9012	Light Bar Option - 8 Light Directional, Rear Mount
9014	Cassette Stereo Option - Under Overhead Cabinet, AM/FM/CASS/SPKRS
9015	Gas Monitor Option - Hard Wired Wall Mount
9016	Arrowboard Option - Fixed 10 Light, Trailer Roof Mount
9017	Stabilizer Jack Option - Additional 2 Rear Corner Jacks
9018	Portable Heater Option - 120 VAC, 5120 BTU, 1500 Watt
9019	Spare Tire & Carrier Option - ST205/75R15 with 5 X 4-1/2” B.C.
9020	Propane Bottle Option - RV Type 40 LB. (2X)
9021	Propane Bottle Option - RV Type 40 LB. With Level Gauge (2X)
9022	Warner Socket Option - 6 Pole With Junction Box
9023	Cone Holder Option - Exterior Vertical Mount, Lockable
9024	Fire Extinguisher Option - 5 LB. A:B:C, Wall Mount Bracket
9025	First Aid Kit Option - OSHA 25 Person WIth Wall Bracket
9026	12VDC Power Tap Option - Wall Mounted
9027	Cable Clamp Option - Bench Top Mounted, Formed Aluminum
9028	Closet Module Option - Installed
9029	Cole Hersee Trailer Plug Option - 7 Pole With Junction Box
9030	Ball Coupler Option - 2” Ball Heavy Duty Channel Mount

8.5 Other Options Continued

Option #	Description
9031	Hitch Lock Option - Ball Coupler, Blaylock Type #TL33
9032	Floodlight Option - 500 Watt Halogen, 1X Interior & 2X Exterior Brackets
9033	Safety Center Option - Fire Extinguisher & First Aid Kit, Trailer-Mounted
9034	Remote Start Option - Honda Portable Genset, Interior Trailer-Mounted
9036	Hitch Lock Option - Lunette Eye, Blaylock Type #TL60
9037	Floodlight Option - 55 Watt, 12VDC, Exterior Mounted With Switch
9038	Counter & Storage Option - Across the Aisle, Drop-in
9039	Propane (LPG) - Bottle Option, Aluminum, Telco Spec., 40#
9040	Wall Mounted Heater Option - 240 VAC, 6820 BTU, 2000 Watt
9041	Warner Cable Option - 6 Pole Socket With Double-Ended 4’ Cord
9042	Pollack Trailer Plug Option - 7 Pole Round WIth Junction Box
9043	Economy Gas Monitor Option - Household Hardwired CO Detector
9044	Security System Option - Doors, Windows, Genset Compartment & Vibration
9045	Manhole Safety Kit Option - 4000A, 1325P, AIRPAC15 & PELCHECK-MAX401K

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